



6AN4

HIGH-MU TRIODE

7-PIN MINIATURE TYPE

For UHF TV service

6AN4

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts

Current 0.225 amp

Direct Interelectrode Capacitances (Approx.):

	Without External Shield	With External Shield ^o	
Grid to plate	1.7	1.7	μf
Grid to cathode and heater. . .	2.9	3.3	μf
Plate to cathode and heater . .	0.25	1.8	μf
Heater to cathode	3	2.9 [•]	μf
Grid to cathode	2.6	2.6 [•]	μf
Plate to cathode.	0.2	0.18 [•]	μf
Cathode to grid and heater. . .	5.5	5.7 [♦]	μf
Plate to grid and heater. . . .	1.8	3.4 [♦]	μf

Characteristics, Class A₁ Amplifier:

Plate-Supply Voltage. 200 volts

Cathode Resistor. 100 ohms

Amplification Factor. 70

Transconductance. 10000 μmhos

Plate Current 13 ma

Grid Voltage (Approx.) for
plate current of 20 μa. -7 volts

Mechanical:

Mounting Position Any

Maximum Overall Length. 1-3/4"

Maximum Seated Length. 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip) . 1-1/8" ± 3/32"

Maximum Diameter. 3/4"

Dimensional Outline See General Section

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JETEC No. E7-1)

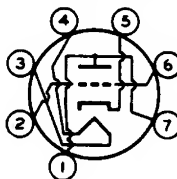
Basing Designation for BOTTOM VIEW. 7DK

Pin 1 - Plate

Pin 2 - Grid

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Cathode

Pin 6 - Grid

Pin 7 - Plate

^o With external shield JETEC No. 316 connected to cathode except as noted.

[•] With external shield JETEC No. 316 connected to ground.

[♦] With external shield JETEC No. 316 connected to grid.

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AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300	max.	volts
CATHODE CURRENT	30	max.	ma
PLATE DISSIPATION	4	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	0.1	max.	megohm
For cathode-bias operation.	0.5	max.	megohm

[▲] The dc component must not exceed 100 volts.